GROUP 00E

GENERAL <ELECTRICAL>

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HOW TO READ WIRING DIAGRAMS

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

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In each section, all specifications are listed, including optional specifications. Accordingly, some specifications may not be applicable for individual vehicles.

Section	Basic contents
Component locations	Locations are shown for each point of relays, ECUs, sensors, solenoid valves, inspection connectors, fusible links, fuses, etc. In the part's lists, parts are listed in alphabetical order.
Configuration diagrams	Connector locations and harness wiring configurations on actual vehicles are illustrated.
Circuit diagrams	Circuits from power source to earth are shown completely, classified according to system. There is a main division into power source circuits and circuits classified by system. • Junction block The entire circuit for the junction block is described, because only the part of the junction block needed is normally shown in each circuit diagram. • Joint connectors The internal circuits for all joint connectors are described, because only the part needed is shown in each circuit diagram. • Power source circuits Circuits from the battery to fusible link, fuse, ignition switch, etc are shown. • Circuits classified by system For each system, the circuits are shown from fuse to earth, excluding the power source sections.

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HOW TO READ CONFIGURATION DIAGRAMS

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The wiring harness diagrams clearly show the connector locations and harness routings at each site on actual vehicles.

Denotes connector No.
The same connector No. is used throughout the circuit diagrams to facilitate connector location search.
The first alphabetical symbol indicates the location site of the connector and a number that follows is the unique number.
Numbers are usually assigned to part in clockwise order on the diagram.

Example: A-19
- Number specific to connector (serial number)
- Connector location site symbol
  - A: Engine compartment
  - B: Instrument panel
  - C: Floor and roof
  - D: Door
  - E: Tailgate

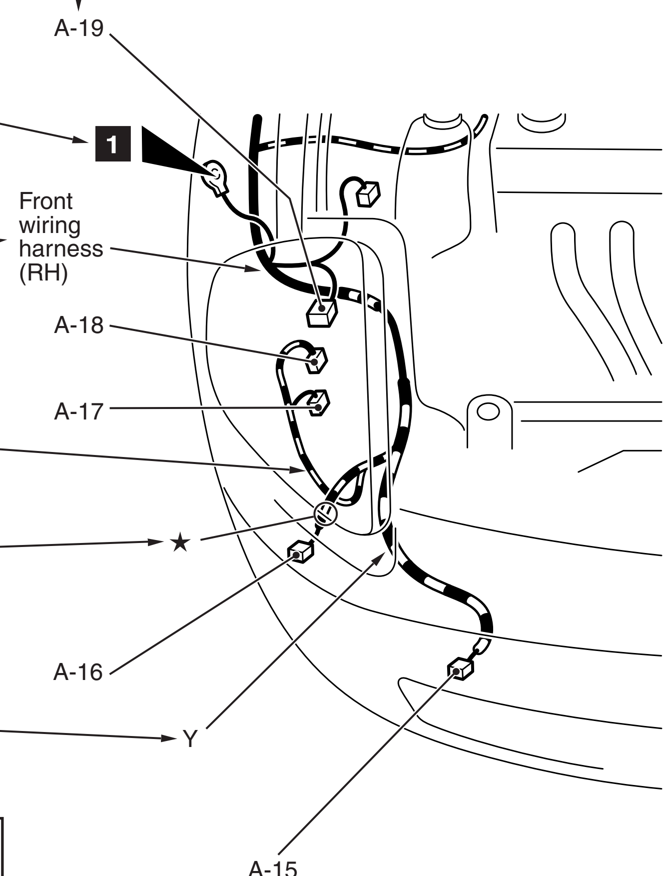
Denotes earth point.
Same earth number is used throughout circuit diagrams to facilitate search of earth point.
Refer to GROUP 70 COMPONENT LOCATIONS - EARTH MOUNTING LOCATIONS for details of earth points.

Denotes harness name.

Denotes a section covered by a corrugated tube.

The mark ★ shows the standard mounting position of wiring harness.

Denotes the colour of the corrugated tube (If not specified, it is black.)
R: Red
Y: Yellow



The number of connector pins and the connector colour (except milk white)* are shown for ease of retrieval.

Example: (2-B)
- Connector colour (milk white if no colour is indicated)
- Number of connector pins

*: Typical connector colours

B: Black	BR: Brown
Y: Yellow	V: Violet
L: Blue	O: Orange
G: Green	GR: Grey
R: Red	None: Milk white

A-15 (2)	Fog lamp (RH)
A-16 (2-GR)	Horn (LO)
A-17 (2-B)	Headlamp (RH)
A-18 (2-B)	Windshield washer motor
A-19 (2-GR)	Dual pressure switch

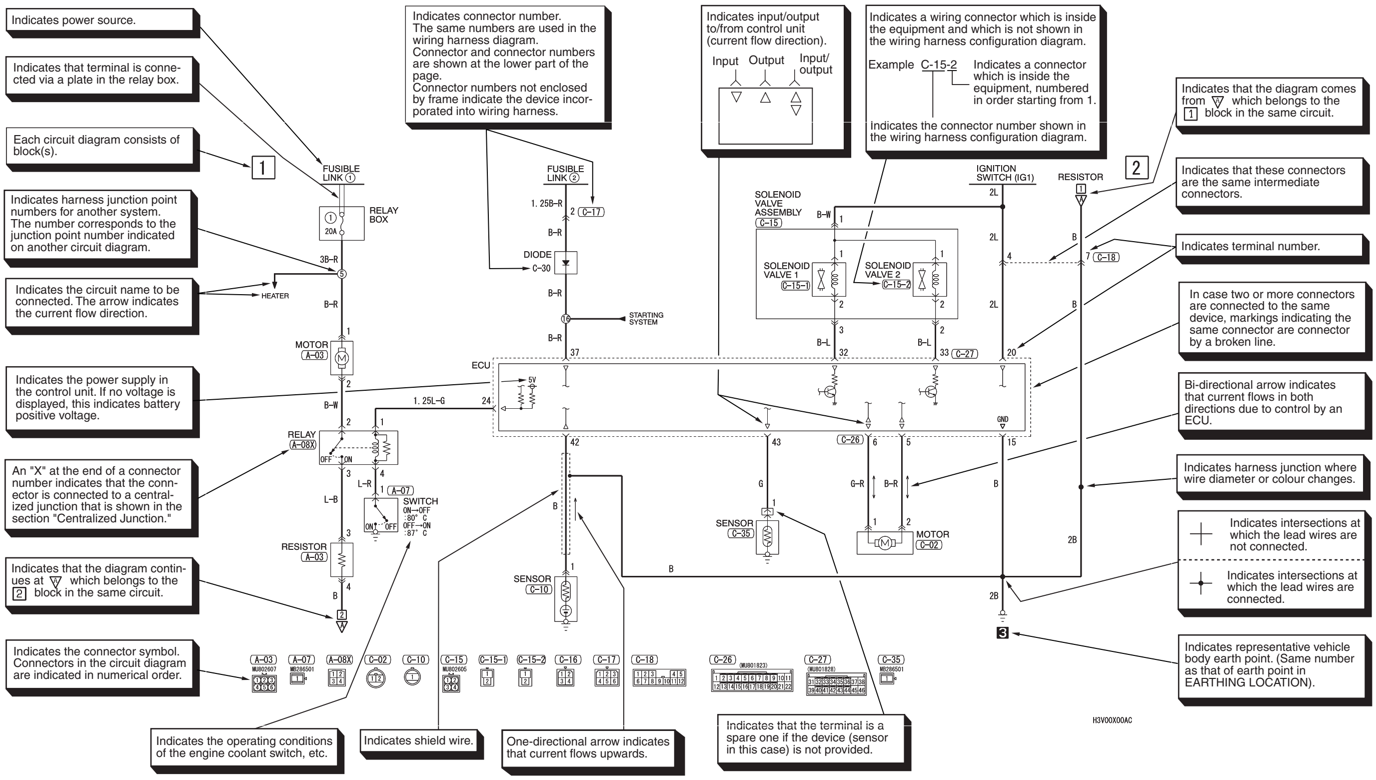
Indicates the device to which the connector is connected.

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HOW TO READ CIRCUIT DIAGRAMS

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The circuit of each system from the fuse (or fusible link) to earth is shown. The power source is shown at the top and the earth at the bottom to facilitate understanding of how the current flows. The circuit diagrams show the state when switches are not operated.

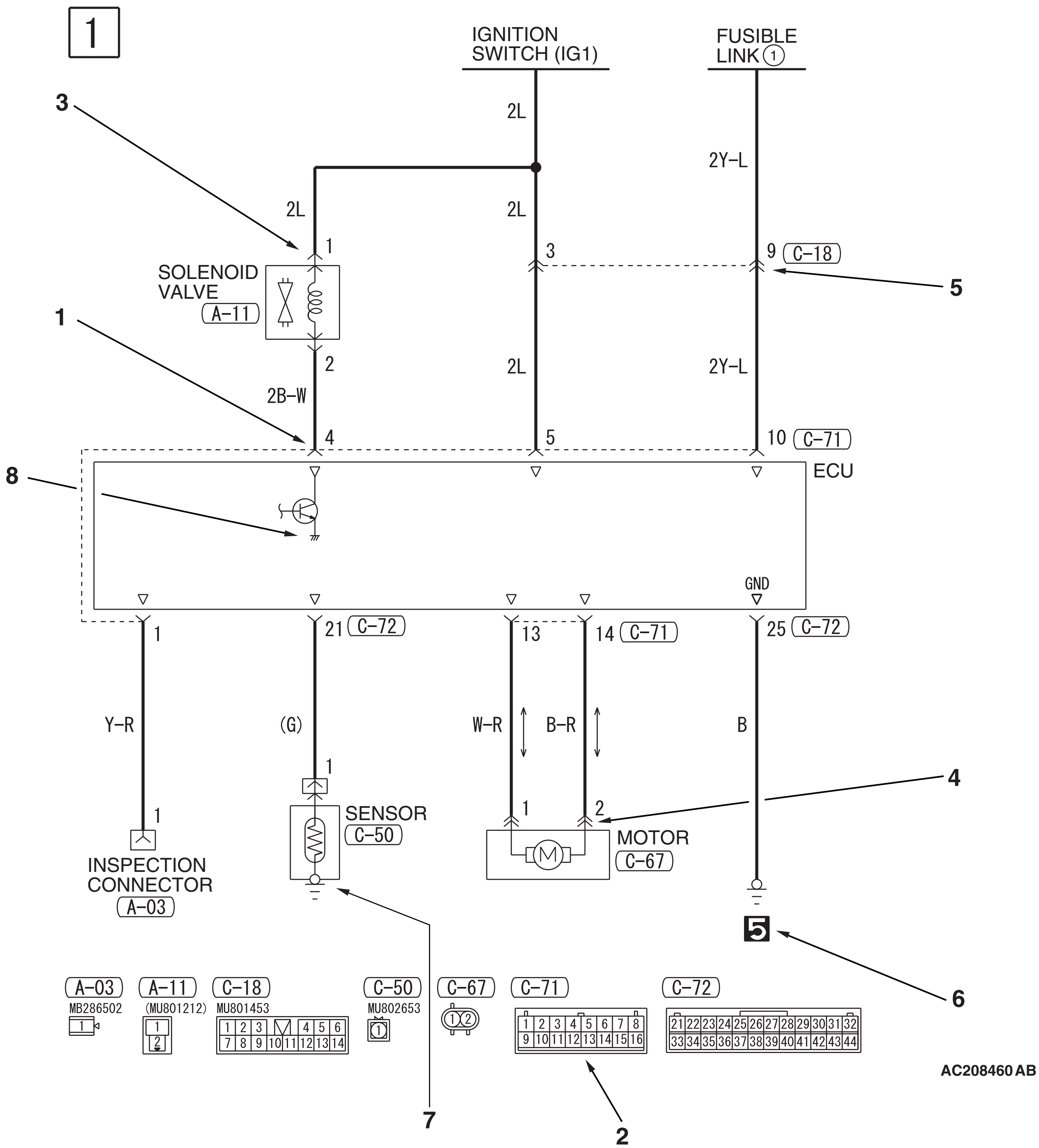


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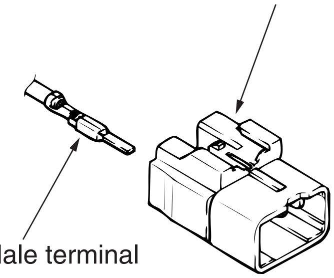
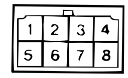
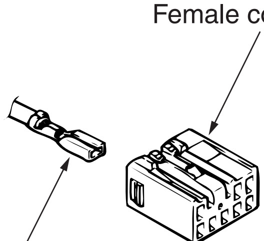
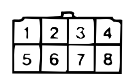
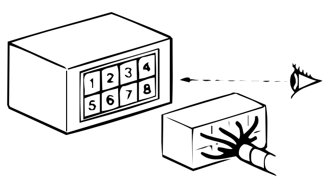
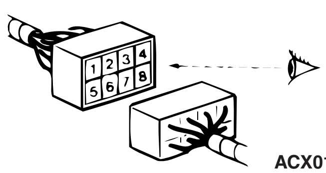
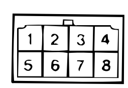
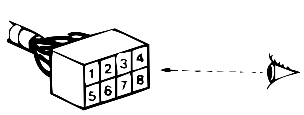
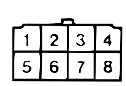
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MARKINGS FOR CONNECTOR AND EARTHING

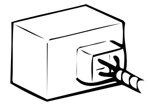
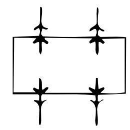
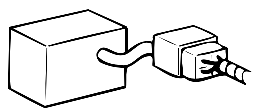
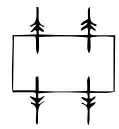
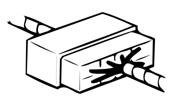
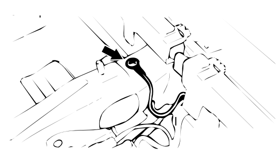
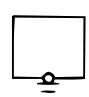
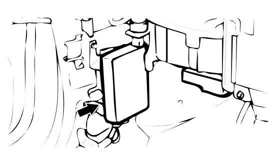
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Item	No.	Connector/Earthing	Symbol	Contents
Connector and terminal marking	1	 ACX01251AE	Male terminal  ACX01252AD Male connector  ACX01253AI	The male and female terminals are indicated as shown. The connector with male terminal(s) is called as male connector and indicated by two connector contour lines, while the connector with female terminal(s) is called as female connector and indicated by single connector contour line.
		 ACX01254 AD	Female terminal  ACX01255AD Female connector  ACX01256 AH	
Connector symbol marking	2	Device  ACX01257AD Intermediate connector  ACX01258AD	 ACX01253	The symbol indicates the connector is viewed as shown. At a device connection, the connector symbol on the device side is shown. For an intermediate connector, the male connector symbol is shown. For spare connectors and check connectors, no device is connected, and so the harness-side connector symbol is shown for these connectors. However, a diagnosis connector is exceptional.
		Spare connector, check connector  ACX01816 AD	 ACX01256	

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Item	No.	Connector/Earthing	Symbol	Contents
Connector connection marking	3	Direct connection type  ACX01260 AD	 ACX01261	Connection between a device and the harness is either by direct insertion in the device (direct connection type) or by connection with a harness connector furnished on the device side (harness connection type). The two types are indicated as illustrated.
	4	Harness connection type  ACX01262 AD	 ACX01263	
	5	Intermediate connector  ACX01264 AD	 ACX01265	
Earth marking	6	Body earth  AC208448AB	 ACX01274	Earthing is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	7	Device earth  AC208449AB	 ACX01276	
	8	Earth in control unit  AC208450AB	 ACX01278	

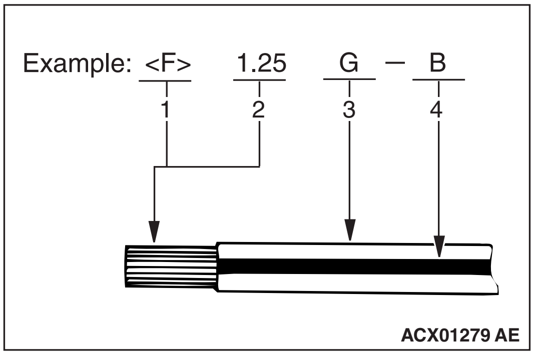
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WIRE COLOUR CODE

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Wire colours are identified by the following colour codes.

Code	Wire colour	Code	Wire colour	Code	Wire colour	Code	Wire colour
B	Black	L	Blue	PU	Purple	V	Violet
BR	Brown	LG	Light green	R	Red	W	White
G	Green	O	Orange	SB	Sky blue	Y	Yellow
GR	Grey	P	Pink	SI	Silver	–	–



If a cable has two colours, the first of the two colour code characters indicates the basic colour (colour of the cable coating) and the second indicates the marking colour.

No.	Meaning
1	<F>: Flexible wire
	<T>: Twisted wire
2	Wire size (mm^2)*
3	Basic colour (colour of the cable coating)
4	Marking colour

NOTE:

**: No code indicates 0.5 mm^2. Cable colour code in parentheses indicates 0.3 mm^2.*

ABBREVIATION SYMBOLS

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The abbreviation symbols used in wiring diagrams are defined below.

1. For system name

Abbreviation symbol	**Meaning**	**Abbreviation symbol**	**Meaning**
ABS	Anti-skid braking system	INVECS	Intelligent and innovative vehicle electronic control system
ASC	Active stability control system	J/B	Junction block
CAN	Controller area network	J/C	Joint connector
CVT	Continuously variable transmission	M/T	Manual transmission
		SRS	Supplemental restraint system

2. For combination meter

Abbreviation symbol	**Meaning**	**Abbreviation symbol**	**Meaning**
ABS	Anti-skid braking system warning lamp	ODO	Odometer
ASC	ASC indicator lamp	OIL	Engine oil pressure warning lamp
ASC OFF	ASC OFF indicator lamp	P, R, N, D, Ds, L	Shift lever position indicator lamp
BEAM	High beam indicator lamp	SEAT BELT	Seat belt warning lamp
BRAKE	Brake warning lamp	SPEED	Speedometer
CHECK ENGINE	Check engine warning lamp	SRS	Supplemental restraint system warning lamp
CHG	Charging warning lamp		
DOOR	Door-ajar warning lamp	T/GA	Engine coolant temperature gauge
EPS	EPS warning lamp	TACHO	Tachometer
F/GA	Fuel gauge	TAIL	Tail lamp indicator lamp
FOG	Fog indicator lamp	TRIP	Tripmeter
FUEL	Low fuel warning lamp	TURN (LH)	Turn-signal indicator lamp, hazard warning indicator lamp
LCD	Liquid crystal display	TURN (RH)	

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3. For switch and relay

Name of switches and relays	Abbreviation symbol	Operation
Blower switch	LO	Blower operates at low speed
	ML	Blower operates at medium low
	MH	Blower operates at medium high
	HI	Blower operates at high
Dimmer passing switch	LO	Low beams ON
	HI	High beams ON
	PASS	High beams ON
Door lock actuator	LOCK	Door lock
	UNLOCK	Door unlock
Ignition switch	LOCK	When turned to the LOCK position, no circuits will start
	ACC	When turned to the ACC (ACCESSORY) or ON position, the power circuit will start
	IG2	When at the ST (START) position, the power circuit will not start functioning
	IG1	Even when at the ST (START) position, the power circuit will start
	ST	Only when turned to the ST (START) position, the power circuit will start
Inhibitor switch	P	Selector lever is at the P (PARKING) position
	R	Selector lever is at the R (REVERSE) position
	N	Selector lever is at the N (NEUTRAL) position
	D	Selector lever is at the D (DRIVE) position
	Ds	Selector lever is at the Ds (DOWN SHIFT and DRIVE SPORTY) position
	L	Selector lever is at the L (LOW) position
Lighting switch	HEAD	Headlamps ON
	TAIL	Tail, position, licence plate and illumination lamps ON
Others	ON	Switched ON
	OFF	Switched OFF
Power window switch	UP	Window closes
	DOWN	Window opens
	AUTO DOWN	Window is easily opened with one action
	LOCK	Prevents all switches other than the main switch from operating the power windows
	UNLOCK	Every switch can open or close the respective window
Remote controlled mirror switch	LH	LH mirror operates
	RH	RH mirror operates
Room lamp	DOOR	Room lamp ON when a door is open

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Name of switches and relays	Abbreviation symbol	Operation
Sunroof switch	UP	Sunroof tilts up
	OPEN	Sunroof slides to open
	CLOSE/DOWN	Sunroof tilts down or slides to close
Turn-signal lamp switch	LH	LH turn-signal lamps ON
	RH	RH turn-signal lamps ON
Windshield intermittent wiper interval adjusting knob	SLOW	Pause time for intermittent operation lengthens
	FAST	Pause time for intermittent operation shortens
Windshield wiper switch	MIST	Windshield wiper operates once
	INT	Windshield wiper operates intermittently
	LO	Windshield wiper operates at low speed
	HI	Windshield wiper operates at high speed

4. For others

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
A/C	Air conditioner	GND	Earthing
CPU	Central processing unit	HI	High
ECU	Electronic control unit	ILL	Illumination lamp
EGR	Exhaust gas recirculation	IND	Indicator lamp
EPS	Electric control power steering	LH	Left hand
ETACS	Electronic time and alarm control system	LO	Low
		RH	Right hand